

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 110.00500104	Serial No.: 10/809,660
	Applicants: Pui et al.	Confirmation No.: 7495
	Application Filing Date: March 25, 2004	Group: 4762 1636
	Information Disclosure Statement mailed:	November 16, 2005

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		<b>NONE</b>					

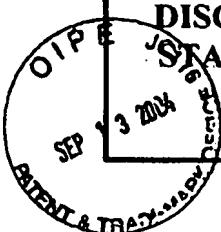
## FOREIGN PATENT DOCUMENTS

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
IJK	<input checked="" type="checkbox"/>	www.crititech.com/technology Website dated 06/15/02, 5 pages

<b>EXAMINER</b> /James Ketter/	<b>Date Considered</b> 05/27/2007
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Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/JK/		3,521,125	07/21/70	Nelson			
		3,608,823	09/28/71	Buschor			
		3,654,534	04/04/72	Fischer			
		4,002,777	01/11/77	Juvinall et al.			
		4,039,145	08/02/77	Felici et al.			
		4,265,641	05/05/81	Natarajan			
		4,328,940	05/11/82	Malcolm			
		4,414,603	11/08/83	Masuda			
		4,476,515	10/09/84	Coffee			
		4,578,290	03/25/86	Komon et al.			
		4,634,057	01/06/87	Coffee et al.			
		4,659,012	04/21/87	Coffee			
		4,748,043	05/31/88	Seaver et al.			
		4,795,330	01/03/89	Noakes et al.			
		4,846,407	07/11/89	Coffee et al.			
		4,945,050	07/31/90	Sanford et al.			
		5,036,006	07/30/91	Sanford et al.			
		5,044,564	09/03/91	Sickles			
		5,066,587	11/19/91	Jones et al.			
		5,091,205	02/25/92	Fan			
		5,100,792	03/31/92	Sanford et al.			
		5,120,657	06/09/92	McCabe et al.			
		5,141,131	08/25/92	Miller, Jr. et al.			

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/JK/		5,149,655	09/22/92	McCabe et al.			
		5,179,022	01/12/93	Sanford et al.			
		5,204,253	04/20/93	Sanford et al.			
		5,219,746	06/15/93	Brinegar et al.			
		5,222,663	06/29/93	Noakes et al.			
		5,240,842	08/31/93	Mets			
		5,247,842	09/28/93	Kaufman et al.			
		5,354,556	10/11/94	Sparks et al.			
		5,371,015	12/06/94	Sanford et al.			
		5,433,865	07/18/95	Laurent			
		5,457,041	10/10/95	Ginaven et al.			
		5,475,228	12/12/95	Palathingal			
		5,478,744	12/26/95	Sanford et al.			
		5,506,125	04/09/96	McCabe et al.			
		5,516,670	05/14/96	Kuehnle et al.			
		5,525,510	06/11/96	McCabe et al.			
		5,584,807	12/17/96	McCabe			
		5,621,605	04/15/97	Inaba et al.			
		5,655,517	08/12/97	Coffee			
		5,683,556	11/04/97	Nomura et al.			
		5,685,482	11/11/97	Sickles			
		5,702,754	12/30/97	Zhong			
		5,807,436	09/15/98	Stachelhaus et al.			
		5,813,614	09/29/98	Coffee			

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/JK/		5,837,313	11/17/98	Ding et al.			
		5,846,595	12/08/98	Sun et al.			
		5,866,400	02/02/99	Palsson et al.			
		5,873,523	02/23/99	Gomez et al.			
		5,897,911	04/27/99	Loeffler			
		5,915,377	06/29/99	Coffee			
		5,973,904	10/26/99	Pui et al.			
		5,980,972	11/09/99	Ding			
		5,992,244	11/30/99	Pui et al.			
		6,068,199	05/30/00	Coffee			
		6,074,688	06/13/00	Pletcher et al.			
		6,093,557	07/25/00	Pui et al.			
		6,105,571	08/22/00	Coffee			
		6,105,877	08/22/00	Coffee			
		6,120,847	09/19/00	Yang et al.			
		6,143,370	11/07/00	Panagiotou et al.			
		6,145,391	11/14/00	Pui et al.			
		6,093,557	04/25/00	Pui et al.			
		6,251,136	06/26/01	Guruwaiya et al.			
		6,252,129 B1	06/26/01	Coffee			
		6,364,903	04/02/02	Tseng et al.			
		6,368,658	04/09/02	Schwarz et al.			
		6,399,362 B1	06/04/02	Pui et al.			
		6,419,692	07/16/02	Yang et al.			

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/JK/		6,419,745	07/16/02	Burkett et al.			
		6,746,869	06/08/04	Pui et al.			
		6,764,720	07/20/04	Pui et al.			
—		2003/0143315A1	07/31/03	Pui et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
/JK/	✓	1052695 A	03/18/93	CN (w/Abstract)				
	✓	198 46 656 A1	04/29/99	DE (w/Abstract)				
	✓	199 09 333 A1	11/11/99	DE (w/Abstract)				
	✓	0 234 841 A2	09/02/87	EP				
	✓	0 270 356 A2	12/02/87	EP				
	✓	0 258 016 A1	03/02/88	EP				
	✓	0 258 016 B1	03/02/88	EP				
	✓	0 434 616 A1	06/26/91	EP (w/Abstract)				
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	✓	0 429 234 A2	05/29/91	EP				
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	✓	0 429 234 B1	05/29/91	EP				
	✓	6-242273	09/02/94	JP (w/Abstract)				
	✓	91/00915	01/24/91	WO				
	✓	91/07487	05/30/91	WO				
	✓	93/07465	04/15/93	WO				
	✓	98/03267	01/29/98	WO				
—	✓	98/56894	12/17/98	WO				

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	<input checked="" type="checkbox"/>	01/087491 A1	11/22/01	WO				
	<input checked="" type="checkbox"/>	03/082363 A1	10/09/03	WO				
	<input checked="" type="checkbox"/>	04/047882 A2	06/10/04	WO				
	<input checked="" type="checkbox"/>	04/047882 A3	06/10/04	WO				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
/JK/	<input checked="" type="checkbox"/>	Adachi et al., "High-efficiency unipolar aerosol charger using a radioactive alpha source," <i>Aerosol Science, Industry Health and Environment</i> , Masuda and Takahashi, eds., Pergamon Press, NY, 1990; 439-441.
	<input checked="" type="checkbox"/>	Adachi et al., "Unipolar and Bipolar Diffusion Charging of Ultrafine Aerosol Particles," <i>J. Aerosol Sci.</i> , 1985; 16(2):109-123.
	<input checked="" type="checkbox"/>	Büscher et al., "Performance of a unipolar 'square wave' diffusion charger with variable nt-product," <i>J. Aerosol Sci.</i> , 1994; 25(4) 651-663.
	<input checked="" type="checkbox"/>	Chen et al., "Design and Evaluation of a Nanometer Aerosol Differential Mobility Analyzer (Nano-DMA)," <i>J. Aerosol Sci.</i> , 1998; 29(5/6):497-509.
	<input checked="" type="checkbox"/>	Chen et al., "Electrospraying of Conducting Liquids for Monodisperse Aerosol Generation in the 4 nm to 1.8 $\mu$ m Diameter Range," <i>J. Aerosol Sci.</i> , 1995; 26(6):963-977.
	<input checked="" type="checkbox"/>	Chen et al., "Experimental Investigation of Scaling Laws for Electrospraying: Dielectric Constant Effect," <i>Aerosol Science and Technology</i> , 1997; 27(3):367-380.
	<input checked="" type="checkbox"/>	Fuchs, "On the Stationary Charge Distribution on Aerosol Particles in a Bipolar Ionic Atmosphere," <i>Geodis:Pura. Appl.</i> , 1963; 56:185-193.
	<input checked="" type="checkbox"/>	Ganan-Calvo, "Generation of Steady Liquid Microthreads and Micron-Sized Monodisperse Sprays in Gas Streams," <i>Phys. Rev. Lett.</i> , 1998; 80(2):285-288.

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/JK/	✓	Ganan-Calvo, "New Microfluidic Technologies to Generate Respirable Aerosols for Medical Application," <i>J. of Aerosol Sci.</i> , 1999; 30(Suppl. 1):S541-S542.
	✓	Hoppel et al., "The Nonequilibrium Character of the Aerosol Charge Distribution Produced by Neutralizers," <i>Aerosol Sci. &amp; Technol.</i> , 1990; 12:471-496.
	✓	Liu et al., "On unipolar diffusion charging of aerosol particles in the continuum regime," <i>J. Colloid Interface Sci.</i> , 1977; 58:142-149.
	✓	"Minnesota Nanotechnology Summit: Opportunities and Challenges," Final Program, Mar. 17, 2000, Minneapolis, MN.
	✓	<del>Product Literature, BINKS Electrostatic spray painting equipment, 7 pgs, No Date Provided.</del>
/JK/	✓	Pui et al., "Nanometer Particles: A New Frontier For Multidisciplinary Research," <i>J. Aerosol Sci.</i> , 1997; 28(4) 539-544.
	✓	Pui et al., "Unipolar Diffusion Charging Ultrafine Aerosols," <i>Aerosol Sci. Techn.</i> , 1988; 8:173-187.
	✓	Romay et al., "Free electron charging of ultrafine aerosol particles," <i>J. Aerosol Sci.</i> , 1992; 23(7):679-692.
	✓	Romay et al., "On the combination coefficient of positive ions with ultrafine neutral particles in the transition and free-molecule regimes," <i>Aerosol Sci. Techn.</i> , 1992; 17:134-147.
	✓	Romay et al., "Unipolar Diffusion Charging of Aerosol Particles at Low Pressure," <i>Aerosol Sci. Techn.</i> , 1991; 15:60-68.
	✓	Rulison et al., "Scale-up of electrospray atomization using linear arrays of Taylor cones," <i>Rev. of Sci. Instrum.</i> , American Institute of Physics, New York, 1993; 64(3):683-686.
	✓	Songstad et al, "Advances in alternative DNA delivery techniques," <i>Plant Cell, Tissue and Organ Culture</i> , 1995; 40:1-15.
	✓	Wiedensohler et al., "A novel unipolar charger for ultrafine aerosol particles with minimal particles losses," <i>J. Aerosol Sci.</i> , 1994; 25(4):639-650.

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